



July 15, 2024

**New Mexico Oil Conservation Division**

1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Remediation Work Plan  
PLU 23 Dog Town Draw CVB  
Incident Number NAPP2402531559 & NAPP2402633992  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document assessment and delineation activities completed to date and proposes remedial actions to address impacted soil identified at the PLU 23 Dog Town Draw CVB (Site). The purpose of the Site assessment and delineation activities was to determine the presence or absence of impacted soil resulting from two releases of crude oil and vented natural gas at the Site. The following *Work Plan* proposes to excavate accessible impacted soil.

### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit O, Section 14, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21343°, -103.85057°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 14, 2024, a valve froze resulting in the release of 135 barrels (bbls) of crude oil and 261 thousand cubic feet (Mcf) of vented natural gas onto the surface of the well pad and into the adjacent pasture. A vacuum truck was dispatched to the Site to recover free standing fluids, and approximately 101 bbls of released fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted an Initial C-141 Application (C-141) on January 25, 2024. The release was assigned Incident Number NAPP2402531559.

On January 15, 2024, another valve froze resulting in the release of 35 bbls of crude oil and 68 Mcf of vented natural gas onto the surface of the well pad and into the adjacent pasture. A vacuum truck was dispatched to the Site to recover free standing fluids, and approximately 25 bbls of released fluids were recovered. XTO immediately reported the release to the NMOCD via email and submitted a C-141 on January 26, 2024. The release was assigned Incident Number NAPP2402633992.

### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In January 2022, a soil

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boring permitted by New Mexico Office of the State Engineer (C-4575) was completed approximately 0.21 miles southeast of the Site utilizing hollow stem auger method. Soil boring C-4575 was drilled to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 1,771 feet south of the Site. There is a seasonal dry wash 1,950 feet north of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of pasture area that was impacted by the releases, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## **SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES**

On March 5, 2024, Ensolum personnel conducted a Site assessment to evaluate the release extent based on information provided on the C-141, information provided by XTO, and visual observations. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Because the releases occurred in the same vicinity around the same time, the release was mapped as a single extent. Six assessment soil samples (SS01 through SS06) were collected at a depth of 0.5 feet bgs outside of the release extent. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. A photographic log of the initial Site assessment is included in Appendix B.

On March 27 and 28, 2024, Ensolum returned to the Site to oversee delineation activities. Nine potholes (PH01 through PH09) were advanced via heavy equipment and shovel to investigate the vertical extent of the releases. The potholes were advanced to depths ranging from 2 feet to 9 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 0.5 feet to 9 feet bgs. Composite soil sampling of the pasture area was completed (FS01 through FS19). All delineation soil samples were

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field screened by the same methods as stated above. A photographic log of delineation activities is included in Appendix B. Field screening results and observations for all potholes were logged on lithologic/soil sampling logs, which are included as Appendix C. The soil sample locations were mapped utilizing a handheld GPS unit and the delineation soil sample locations are depicted on Figure 2, while the composite soil sample locations are depicted on Figure 3.

On May 9 and 10, 2024, Ensolum returned to the Site to oversee additional delineation activities after receiving the results of the composite soil samples collected from the pasture area. Six boreholes (BH01 through BH06) were advanced by hand auger to investigate the vertical extent of the release in the pasture area. The boreholes were advanced to depths of 4 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet to 4 feet bgs. All delineation soil samples were field screened by the methods as stated above. The soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. A photographic log of delineation activities is included in Appendix B. Field screening results and observations for all boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS06 indicated they were in compliance with Closure Criteria and reclamation standards, confirming lateral delineation of the releases.

Laboratory analytical results for delineation soil samples PH01 through PH03, collected at 0.5 feet and 1-foot bgs, indicated the TPH-GRO/TPH-DRO and total TPH concentrations exceeded the Closure Criteria but were in compliance for total TPH at depths ranging from 8 feet to 9 feet bgs. PH03 exceeded Closure Criteria for TPH-GRO/TPH-DRO at the terminal depth of 8.5 feet bgs due to backhoe refusal. Laboratory analytical results for delineation soil sample PH04 indicated the TPH-GRO/TPH-DRO and total TPH concentrations exceeded the Closure Criteria at 0.5 feet bgs but was in compliance at 1-foot and 7 feet bgs. Delineation samples PH05, PH06, and PH08 indicated they were in compliance with Closure Criteria. Laboratory analytical results for delineation samples PH07 and PH09 indicated at 0.5 feet bgs they met Closure Criteria but exceeded reclamation requirements for TPH concentrations.

Laboratory analytical results for the delineation samples BH03 and BH05 at 0.5 feet bgs exceeded reclamation requirements but were in compliance with reclamation requirements by 2 feet bgs. Delineation samples BH01, BH02, BH04, and BH06 were all in compliance with reclamation requirements for depths ranging from 0.5 feet to 4 feet bgs.

The confirmation soil sample laboratory analytical results indicated the total TPH concentrations exceeded reclamation requirements, with the exception of FS10, FS14, and FS17, which are in compliance with reclamation requirements.

Laboratory analytical results for all samples collected indicated chloride concentrations were in compliance with Closure Criteria and reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix D.

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## PROPOSED REMEDIATION WORK PLAN

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the releases of crude oil and vented natural gas. Based on laboratory analytical results, TPH-GRO/TPH-DRO and TPH impacted soil exists across an approximate 28,300 square-foot area within the release footprint at depths ranging from 0.5 feet bgs to an exceedance of 8.5 feet bgs. Due to backhoe refusal at 8.5 feet bgs in PH03, vertical definition was not achieved under the Closure Criteria. While the vertical extent of the release is not fully established in the area of PH03, it is established in all other potholes to Site Closure Criteria. The lateral extent of the release is defined through laboratory analytical results of soil samples SS01 through SS06.

XTO proposes to complete the following remediation activities:

- Excavation of petroleum hydrocarbon impacted soil. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria as well as reclamation requirements for the top 4 feet, where applicable. Based on laboratory analytical results from PH01 and PH02 at depths ranging from 8 to 9 feet bgs, Ensolum anticipates the excavation to extend to a depth of at least 8.5 feet bgs in these areas and in doing so, achieve full definition through the collection of floor and sidewall confirmation soil samples. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment which may limit access to portions of impacted soil. The proposed excavation extent is depicted on Figure 4.
- Due to the estimated size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes five-point composite samples to be collected at a sampling frequency of 400 square feet along the excavation floor and sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 130 samples (200 square feet) to approximately 68 samples. The soil samples will be handled as described above and analyzed for all COCs.
- An estimated 2,000 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing Site conditions and the pasture area will be reseeded with a BLM-approved seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* by NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD or within 90 days of when XTO production operations is discharged from the Site, whichever comes first.

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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Staff Engineer



Daniel Moir, PG  
Senior Managing Geologist

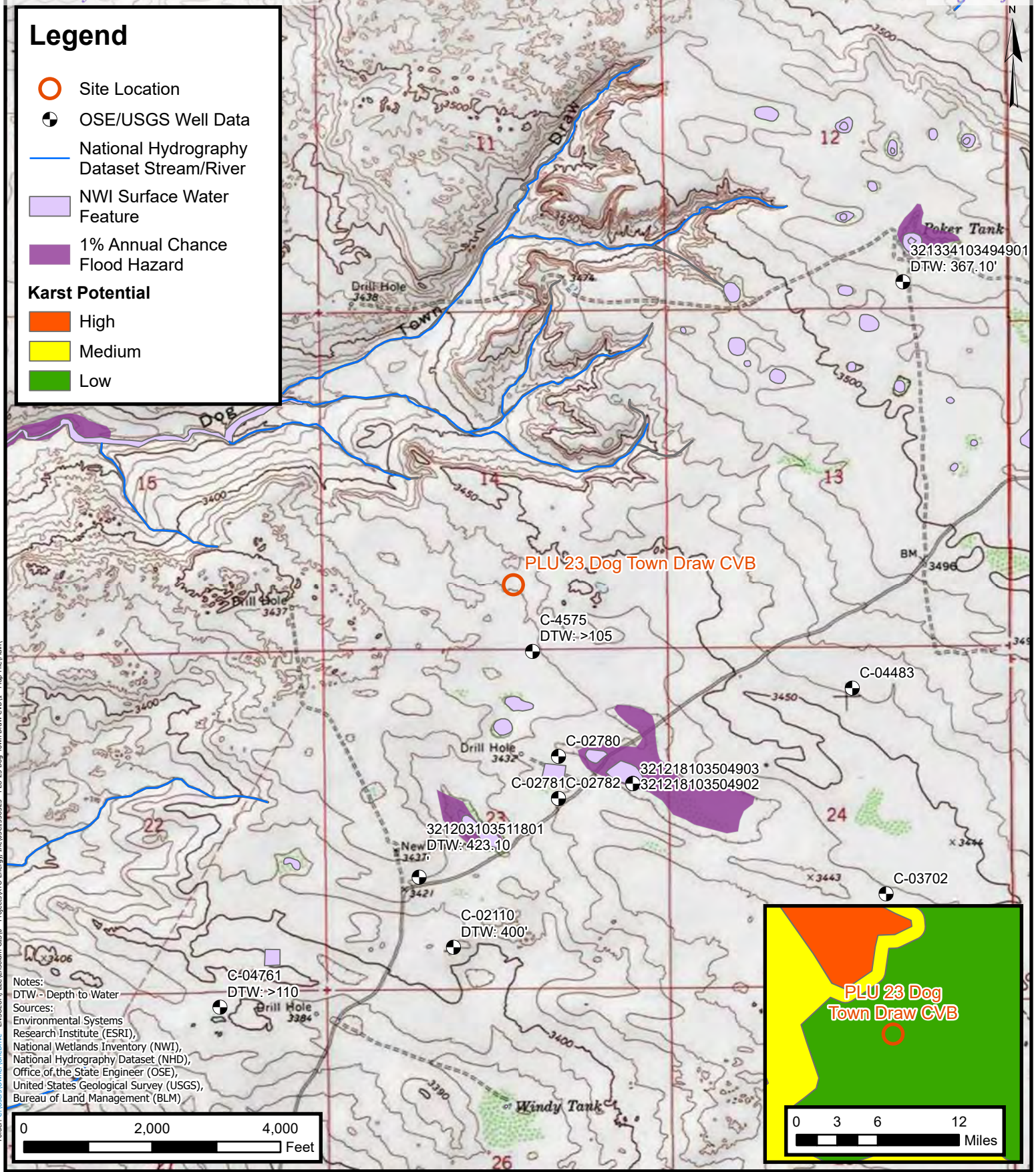
cc: Amy Ruth, XTO  
Amanda Garcia, XTO  
BLM

Appendices:

Figure 1 Site Receptor Map  
Figure 2 Delineation Soil Sample Locations  
Figure 3 Composite Soil Sample Locations  
Figure 4 Proposed Excavation Extent  
Table 1 Soil Sample Analytical Results  
Appendix A Referenced Well Records  
Appendix B Photographic Log  
Appendix C Lithologic / Soil Sampling Logs  
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\OneDrive - ENSOLUM, LLC\Projects\XTO Energy, Inc\03C155923 - PLU 23 Dog Town Draw CVB\1 - Map Files\Main

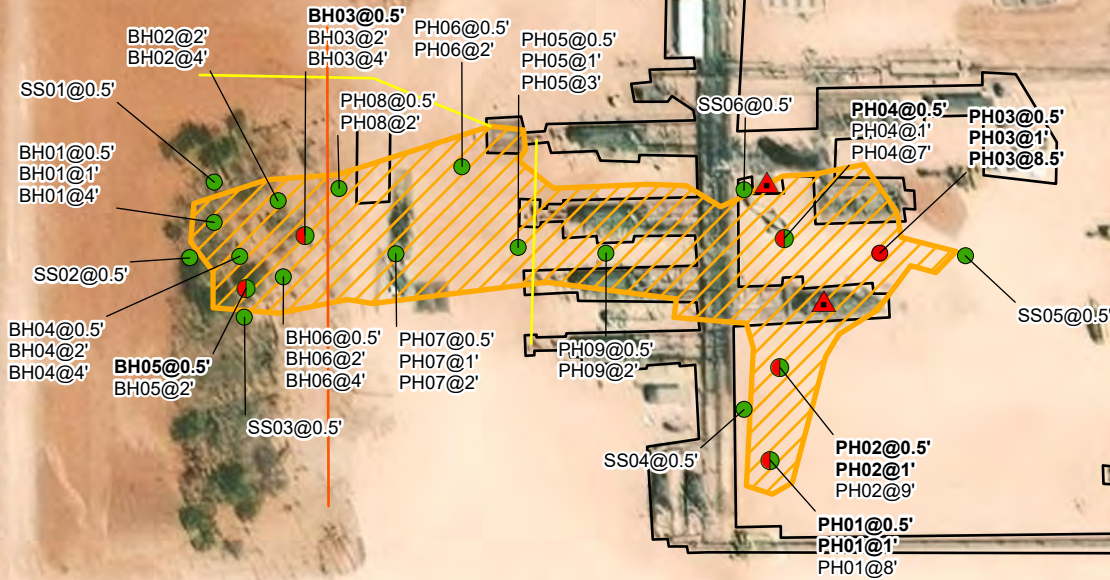


**Site Receptor Map**  
 XTO Energy, Inc  
 PLU 23 Dog Town Draw CVB  
 Incident Numbers: nAPP2402531559 & nAPP2402633992  
 Unit O, Sec 14, T24S, R30E  
 Eddy County, NM

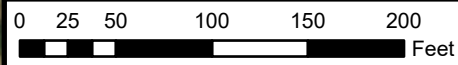
**FIGURE**  
**1**

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Electric Utility Line
- Oil and Gas Utility Line
- Release Extent
- Production Equipment



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

# Delineation Soil Sample Locations

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 Eddy County, NM

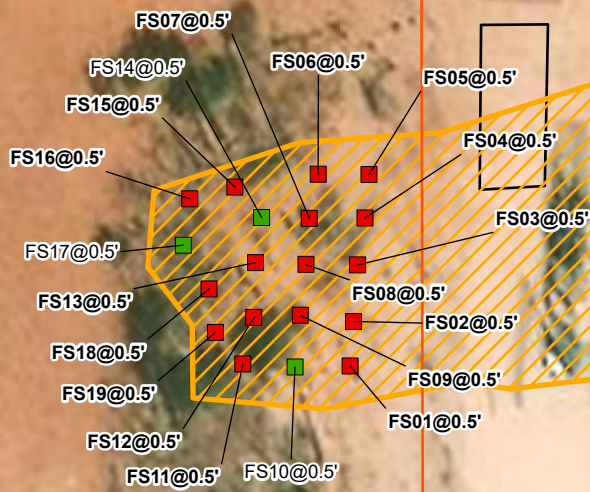
## FIGURE 2



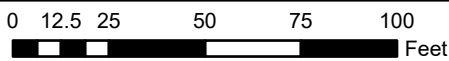


### Legend

- Composite Sample Location in Compliance with Closure Criteria
- Composite Sample Location with Concentrations Exceeding Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Release Extent
- Production Equipment



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

## Composite Soil Sample Locations





XTO Energy, Inc  
 PLU 23 Dog Town Draw CVB  
 Incident Numbers: nAPP2402531559 & nAPP2402633992  
 Unit O, Sec 14, T24S, R30E  
 Eddy County, NM

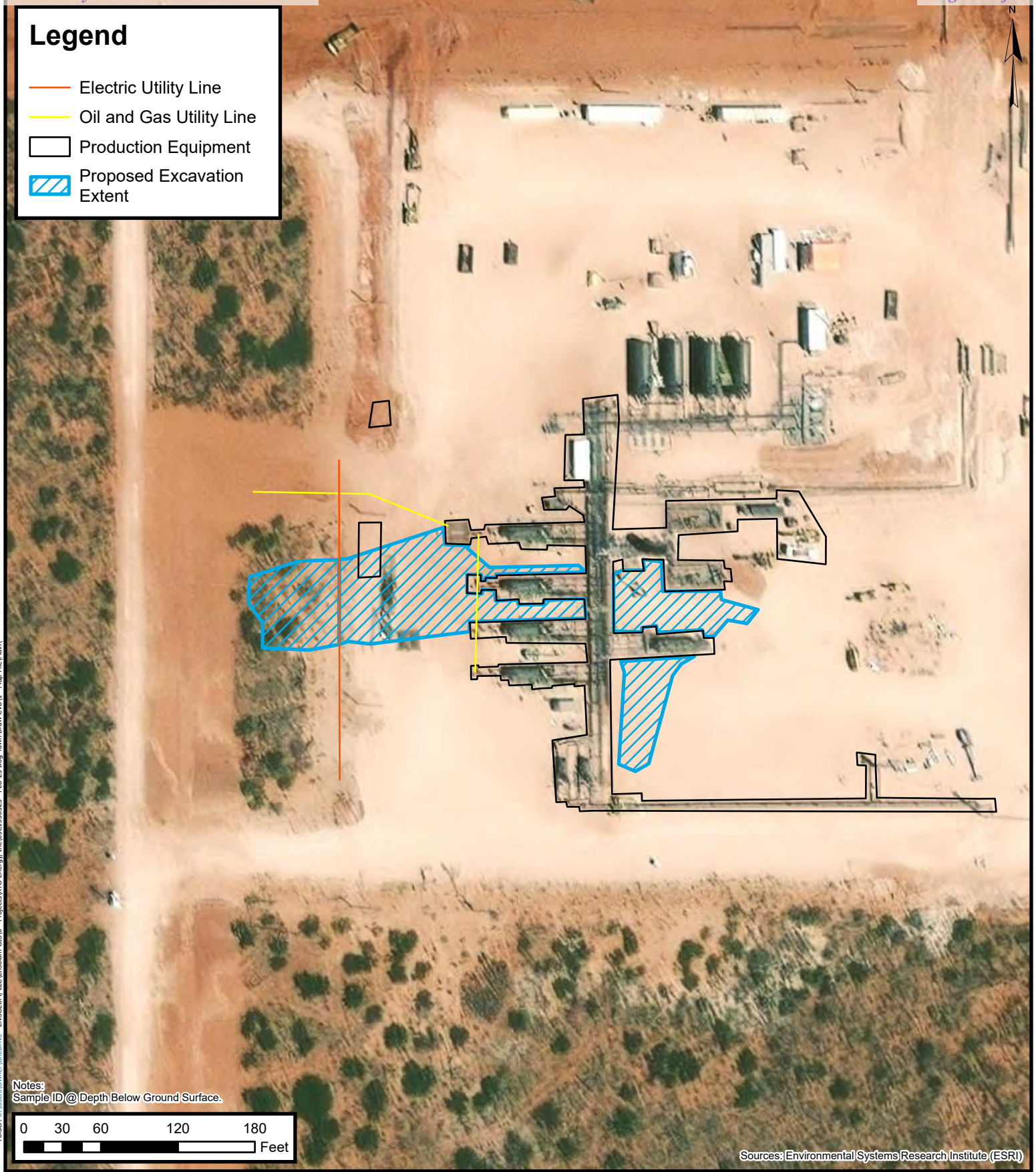
### FIGURE

# 3

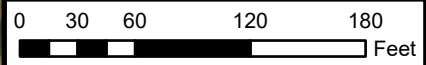


# Legend

-  Electric Utility Line
-  Oil and Gas Utility Line
-  Production Equipment
-  Proposed Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Proposed Excavation Extent

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 Unit O, Sec 14, T24S, R30E  
 Eddy County, NM

**FIGURE**  
**4**



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 23 Dog Town Draw CVB  
XTO Energy, Inc  
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
SS01	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	03/05/2024	0.5	<0.050	<0.300	<10.0	33.5	<10.0	33.5	33.5	32.0
SS03	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS05	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH01	03/27/2024	0.5	<1.00	<b>103</b>	2,610	20,400	2,860	<b>23,000</b>	<b>25,900</b>	80.0
PH01	03/27/2024	1	<5.00	<b>313</b>	6,420	12,100	1,500	<b>18,500</b>	<b>20,000</b>	64.0
PH01	03/27/2024	8	<0.050	<0.300	<10.0	35.3	<10.0	35.3	35.3	16.0
PH02	03/27/2024	0.5	<2.00	<b>148</b>	7,600	30,000	4,430	<b>37,600</b>	<b>42,000</b>	32.0
PH02	03/27/2024	1	7.28	<b>213</b>	5,320	8,200	1,040	<b>13,500</b>	<b>14,600</b>	16.0
PH02	03/27/2024	9	<0.050	<0.300	<10.0	59.5	13.3	59.5	72.8	<16.0
PH03	03/27/2024	0.5	<1.00	<b>111</b>	3,610	30,700	5,000	<b>34,300</b>	<b>39,300</b>	160
PH03	03/27/2024	1	1.92	<b>162</b>	3,420	7,350	930	<b>10,800</b>	<b>11,700</b>	48.0
PH03	03/27/2024	8.5	0.066	8.87	312	1,690	275	<b>2,000</b>	2,280	32.0
PH04	03/27/2024	0.5	<5.00	<b>311</b>	7,980	19,000	2,420	<b>27,000</b>	<b>29,400</b>	48.0
PH04	03/27/2024	1	<0.050	32.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH04	03/27/2024	7	<0.050	0.384	22.2	322	40.0	344	384	16.0
PH05	03/27/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	03/27/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05	03/27/2024	3	<0.050	<0.300	<10.0	17.2	<10.0	17.2	17.2	48.0
PH06	03/27/2024	0.5	<0.050	<0.300	<10.0	41.9	<10.0	41.9	41.9	32.0
PH06	03/27/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH07	03/27/2024	0.5	<0.050	<0.300	36.4	572	67.8	608	676	128
PH07	03/27/2024	1	<0.050	<0.300	<10.0	62.4	<10.0	62.4	62.4	16.0
PH07	03/27/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH08	03/28/2024	0.5	<0.050	<0.300	<10.0	88.9	11.3	88.9	100	32.0
PH08	03/28/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH09	03/28/2024	0.5	<0.050	<0.300	<10.0	649	112	649	761	80.0
PH09	03/28/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01	05/09/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 23 Dog Town Draw CVB  
XTO Energy, Inc  
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
BH01	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	05/09/2024	0.5	<0.050	<0.300	<10.0	289	34.1	289	<b>323</b>	80.0
BH03	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH03	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH04	05/09/2024	0.5	<0.050	<0.300	<10.0	34.1	<10.0	34	34	32.0
BH04	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05	05/10/2024	0.5	<0.050	<0.300	<10.0	148	29.1	148	<b>177</b>	48.0
BH05	05/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH06	05/10/2024	0.5	<0.050	<0.300	<10.0	17.1	<10.0	17.1	17.1	32.0
BH06	05/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH06	05/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
<b>Composite Soil Samples</b>										
FS01	03/27/2024	0.5	<0.050	<0.300	<10.0	345	75.7	345	<b>421</b>	96.0
FS02	03/27/2024	0.5	<0.050	<0.300	<10.0	305	77.2	305	<b>382</b>	64.0
FS03	03/27/2024	0.5	<0.050	<0.300	<10.0	991	237	991	<b>1,230</b>	96.0
FS04	03/27/2024	0.5	<0.050	<0.300	<10.0	962	283	962	<b>1,250</b>	96.0
FS05	03/27/2024	0.5	<0.050	<0.300	<10.0	666	139	666	<b>805</b>	32.0
FS06	03/27/2024	0.5	<0.050	<0.300	<10.0	309	80.5	309	<b>390</b>	48.0
FS07	03/27/2024	0.5	<0.050	<0.300	<10.0	180	56.4	180	<b>236</b>	32.0
FS08	03/27/2024	0.5	<0.050	<0.300	<10.0	418	115	418	<b>533</b>	64.0
FS09	03/27/2024	0.5	<0.050	<0.300	<10.0	207	55.4	207	<b>262</b>	96.0
FS10	03/27/2024	0.5	<0.050	<0.300	<10.0	72.1	12.7	72.1	84.8	32.0
FS11	03/27/2024	0.5	<0.050	<0.300	<10.0	186	55.7	186	<b>242</b>	96.0
FS12	03/27/2024	0.5	<0.050	<0.300	<10.0	387	97.9	387	<b>485</b>	64.0
FS13	03/27/2024	0.5	<0.050	<0.300	<10.0	944	287	944	<b>1,230</b>	122
FS14	03/27/2024	0.5	<0.050	<0.300	<10.0	74.1	<10.0	74.1	74.1	32.0
FS15	03/27/2024	0.5	<0.050	<0.300	<10.0	122	<10.0	122	<b>122</b>	16.0
FS16	03/27/2024	0.5	<0.050	<0.300	<10.0	318	45.5	318	<b>364</b>	32.0



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 23 Dog Town Draw CVB  
XTO Energy, Inc  
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
FS17	03/27/2024	0.5	<0.050	<0.300	<10.0	57.9	<10.0	57.9	57.9	32.0
FS18	03/27/2024	0.5	<0.050	<0.300	<10.0	294	40.2	294	<b>334</b>	64.0
FS19	03/27/2024	0.5	<0.050	<0.300	<10.0	442	60.5	442	<b>503</b>	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER  
www.ose.state.nm.us

OSE OIT JAN 24 2022 PM 3:00

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4575			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell )				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 12	SECONDS 38.03	N		
		LONGITUDE	103	50	58.70	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND								
* DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 23 T24S R30E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 1-4-2022	DRILLING ENDED 1-4-2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±8.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. <b>C-4575</b>	POD NO. <b>1</b>	TRN NO. <b>709414</b>
LOCATION <b>2-1-1 24S-30E-23</b>	WELL TAG ID NO. <b>—</b>	PAGE 1 OF 2

MON



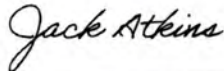
USE DIT JAN 24 2022 09:30

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <b>(attach supplemental sheets to fully describe all units)</b>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, White, Dry	Y ✓ N	
	1	20	19	Sand, very fine grained, well graded, with caliche, Reddish Brown-Light Brown	Y N	
	20	30	20	Caliche, consolidated with silt and some gravel, Off-White, Dry	Y ✓ N	
	30	50	20	Sand, very fine grained, well graded, with gravel, Light Brown	Y ✓ N	
	50	75	25	Sand, very fine grained, well graded, with gravel, Reddish Brown, slight moist	Y ✓ N	
	75	105	30	Sand, very fine grained, poorly graded, Reddish Brown, slight moist	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):      0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Carmelo Trevino	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 JACKIE D. ATKINS SIGNATURE OF DRILLER / PRINT SIGNEE NAME	1/21/2022 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO. <b>C-4573</b>	POD NO. <b>1</b>	TRN NO. <b>709414</b>	
LOCATION <b>2-1-1</b>	<b>245-30E-23</b>	WELL TAG ID NO.	PAGE 2 OF 2

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# OSE\_Well Record and Log\_-forsign

Final Audit Report


2022-01-22


Created:	2022-01-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri


## "OSE\_Well Record and Log\_-forsign" History


 Document created by Lucas Middleton (lucas@atkinseng.com)  
2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123

OSE DIT JAN 24 2022 PM3:00

 Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2022-01-21 - 10:48:19 PM GMT

 Email viewed by Jack Atkins (jack@atkinseng.com)  
2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232

 Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232

 Agreement completed.  
2022-01-22 - 0:16:23 AM GMT



## APPENDIX B

### Photographic Log

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**Photographic Log**  
XTO Energy, Inc  
PLU 23 Dog Town Draw CVB  
nAPP2402531559 & nAPP2402633992



Photograph: 1    Date: 3/5/2024  
Description: On pad staining in release footprint.  
View: Southeast

Photograph: 2    Date: 3/5/2024  
Description: Pasture staining in release footprint  
View: Northwest



Photograph: 3    Date: 3/27/2024  
Description: Delineation activities at PH03  
View: Northwest


Photograph: 4    Date: 5/9/2024  
Description: Delineation in pasture  
View: Southeast





## APPENDIX C

### Lithologic Soil Sampling Logs


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					Sample Name:PH01		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213109, -103.850486					Hole Diameter:24"		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	465.2	N	PH01	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<162	1075	N	PH01	1	1	SP-SM	(1-8') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<162	87.3	N		2	2		
Dry	<162	165.3	N		3	3		
Dry	162	525.2	N		4	4		
Dry	<162	302.6	N		5	5		
Dry	<162	767.8	N		6	6		
Dry	<162	397.3	N		7	7		
Dry	<162	69.1	N	PH01	8	8		(@8') no odor
						Total Depth @ 8 feet bgs		



					Sample Name:PH02		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213241, -103.850468					Hole Diameter:24"		Total Depth: 9'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	1069	N	PH02	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<162	1351	N	PH02	1	1	SP-SM	(1-9') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<162	254.4	N		2	2		
Dry	<162	311.7	N		3	3		
Dry	<162	178.6	N		4	4		
Dry	<162	403.7	N		5	5		
-	-	-	-		6	6		
Dry	<162	390.4	N		7	7		
Dry	<162	250.2	N		8	8		
Dry	<162	43.8	N	PH02	9	9		(@9') no odor
						Total Depth @ 9 feet bgs		


					Sample Name:PH03		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213404, -103.850298					Hole Diameter:24"		Total Depth: 8.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	523	N	PH03	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<162	1532	N	PH03	1	1	SP-SM	(1-8.5') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<162	441.8	N		2	2		
Dry	<162	851.2	N		3	3		
Dry	<162	426.9	N		4	4		
Dry	<162	398.2	N		5	5		
Dry	<162	382.6	N		6	6		
Dry	<162	483.5	N		7	7		
Dry	<162	922.8	N		8	8		
Dry	<162	363.6	N	PH03	8.5	8.5		(@8.5') trackhoe hit refusal
						Total Depth @ 8.5 feet bgs		






					Sample Name:PH04		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213427, -103.850459					Hole Diameter:24"		Total Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	919.8	N	PH04	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<168	68.7	N	PH04	1	1	SP-SM	(1-7') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<168	335.1	N		2	2		
Dry	<168	330.8	N		3	3		
Dry	<168	330.5	N		4	4		
Dry	<168	236.8	N		5	5		
Dry	<168	101.4	N		6	6		
Dry	<168	86.7	N	PH04	7	7		
						Total Depth @ 7 feet bgs		


					Sample Name:PH05		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213417, -103.850908					Hole Diameter:24"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	8.5	N	PH05	0.5		CCHE	(0-1') CALICHE, white, odor, no staining trace brown sand with silt
Dry	<168	37.2	N	PH05	1	1	SP-SM	(1-3') SAND, brown, poorly graded, some silt little clay, with odor, no staining
Dry	<168	33.7	N		2	2		
Dry	<168	15.4	N	PH05	3	3		(@3') no odor
						Total Depth @ 3 feet bgs		


					Sample Name:PH06		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213534, -103.851001					Hole Diameter:24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	0.9	N	PH06	0.5		CCHE	(0-1') CALICHE, white, no odor, no staining trace brown sand with silt
Dry	<168	1.0	N		1		SP-SM	(1-2') SAND, brown, poorly graded, little silt no odor, no staining
Dry	<168	1.1	N	PH06	2			
						Total Depth @ 2 feet bgs		

					Sample Name:PH07		Date:3/27/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213410, -103.851114					Hole Diameter:24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	51.2	N	PH07	0.5		CCHE	(0-1') CALICHE, white, no odor, no staining trace brown silt
Dry	<168	150.2	N	PH07	1	1	SP-SM	(1-2') SAND, brown, poorly graded, little silt some caliche, no odor, no staining
Dry	<168	4.0	N	PH07	2	2		(@2') SAND, brown, poorly graded, little silt, no odor, no staining
						Total Depth @ 2 feet bgs		


					Sample Name:PH08		Date:3/28/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213505, -103.851232					Hole Diameter:24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	3.1	N	PH08	0.5		CCHE	(0-1') CALICHE, white, odor, no staining some brown sand, well graded
Dry	<168	2.1	N		1		SP-SM	(1-2') SAND, brown, poorly graded, trace silt no odor, no staining
Dry	<168	1.4	N	PH08	2			
Total Depth @ 2 feet bgs								


					Sample Name: PH09		Date: 3/28/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: TH/US		Method: Shovel	
Coordinates: 32.213408, -103.850760					Hole Diameter: 12"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	27.7	N	PH09	0.5		CCHE	(0-1') CALICHE, white, odor, no staining some brown silt, well graded
Dry	<168	6.0	N		1	1	SP-SM	(1-2') SAND, brown, poorly graded, trace silt with odor, no staining
Dry	<168	3.9	N	PH09	2	2		(@2') no odor, some silt
Total Depth @ 2 feet bgs								


					Sample Name: BH01		Date: 5/9/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: US		Method: Hand Auger	
Coordinates: 32.213458, -103.851419					Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH01	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt no odor
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH01B	2	2		(3-4') SAND, reddish brown, fine grained, little clay no odor (@4') some clay
Dry	<162	0.0	N		3	3	SP-SC	
Dry	<162	0.0	N	BH01D	4	4	SC	
						Total Depth @ 4 feet bgs		


					Sample Name: BH02		Date: 5/9/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: US		Method: Hand Auger	
Coordinates: 32.213488, -103.851311					Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH02	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt    (3-4') SAND, reddish brown, fine grained, little clay  (@4') CLAYEY SAND, brown, no odor
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH02B	2	2		
Dry	<162	0.0	N		3	3	SP-SC	
Dry	<162	0.3	N	BH02D	4	4	SC	
						Total Depth @ 4 feet bgs		



					Sample Name: BH03		Date: 5/9/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: US		Method: Hand Auger	
Coordinates: 32.213439, -103.851267					Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	8.7	N	BH03	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt    (3-4') SAND, reddish brown, fine grained, little clay  (@4') CLAYEY SAND, brown, no odor
Dry	<162	4.0	N		1	1		
Dry	<162	1.6	N	BH03B	2	2		
Dry	<162	0.8	N		3	3	SP-SC	
Dry	<162	0.8	N	BH03D	4	4	SC	
						Total Depth @ 4 feet bgs		

					Sample Name: BH04		Date: 5/9/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: US		Method: Hand Auger	
Coordinates: 32.213409, -103.851377					Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH04	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt no odor
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH04B	2	2		
Dry	<162	0.0	N		3	3	SP	(3-4') SAND, reddish brown, fine grained, trace clay no odor
Dry	<162	0.0	N	BH04D	4	4	SP-SC	(@4') SAND, reddish brown, fine grained, little clay no odor
						Total Depth @ 4 feet bgs		

					Sample Name: BH05		Date: 5/10/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: US		Method: Hand Auger	
Coordinates: 32.213363, -103.851366					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH05	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH05B	2	2		(@2') trace clay, no odor
						Total Depth @ 2 feet bgs		

										Sample Name: BH06		Date: 5/9/2024			
										PLU 23 Dog Town Draw CVB				Incident Number: nAPP2402531559 / nAPP2402633992	
LITHOLOGIC / SOIL SAMPLING LOG										Job Number: 03C1558323		Logged By: US		Method: Hand Auger	
Coordinates: 32.213379, -103.851303										Hole Diameter: 3"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
Dry	<162	0.0	N	BH04	0.5		SP	(0-3') SAND, brown, fine grained, trace silt no odor (@2') trace clay (@3') little clay no odor (@4') SAND, reddish brown, fine grained, some clay no odor							
Dry	<162	0.0	N		1	1									
Dry	<162	0.0	N	BH04B	2	2									
Dry	<162	0.0	N		3	3	SP								
Dry	<162	0.2	N	BH04D	4	4	SP-SC								
Total Depth @ 4 feet bgs															



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 13, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 23 DOG TOWN DRAW CVB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/13/2024	Sampling Type:	Soil
Project Name:	PLU 23 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558324	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21345,-103.85032		

**Sample ID: SS 01 @ 0.5' (H241163-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/13/2024	Sampling Type:	Soil
Project Name:	PLU 23 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558324	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21345,-103.85032		

**Sample ID: SS 02 @ 0.5' (H241163-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	33.5	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/13/2024	Sampling Type:	Soil
Project Name:	PLU 23 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558324	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21345,-103.85032		

**Sample ID: SS 03 @ 0.5' (H241163-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/13/2024	Sampling Type:	Soil
Project Name:	PLU 23 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558324	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21345,-103.85032		

**Sample ID: SS 04 @ 0.5' (H241163-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/13/2024	Sampling Type:	Soil
Project Name:	PLU 23 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558324	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21345,-103.85032		

**Sample ID: SS 05 @ 0.5' (H241163-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/13/2024	Sampling Type:	Soil
Project Name:	PLU 23 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558324	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21345,-103.85032		

**Sample ID: SS 06 @ 0.5' (H241163-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: ENSOLVUM, LLC  
 Project Manager: Tracy Hillard  
 Address: 3122 National Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 575-937-3900 Fax #:   
 Project #: 03C1558324 Project Owner:   
 Project Name: PLU 23 DOG TOWN DRAM CVB  
 Project Location: 32.21345 -103.85032  
 Sampler Name: Marianna O'Dell  
 P.O. #:   
 Company: XTO Energy  
 Attn: Amy Ruth  
 Address: 3104 E. Green St  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #:   
 Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	Chlorides	TPH	BTEX					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
Hauille3	SS01 @ 0.5'		6	X							3/5/24	13:45	X	X	X					
	SS02 @ 0.5'		1	X								12:30	X	X	X					
	SS03 @ 0.5'		1	X								13:40	X	X	X					
	SS04 @ 0.5'		1	X								12:40	X	X	X					
	SS05 @ 0.5'		1	X								12:45	X	X	X					
	SS06 @ 0.5'		1	X								13:35	X	X	X					

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Relinquished By: *[Signature]*  
 Date: 3/6/24  
 Time: 11:30  
 Received By: *[Signature]*  
 Date: 3/7/24  
 Time: 14:20  
 Verbal Result:  Yes  No Add'l Phone #:   
 All Results are emailed. Please provide Email address:   
 thillard@ensolvum.com, medelle@ensolvum.com  
 REMARKS: Incident: APP024025315598  
 NAPP2402033092

Delivered By: (Circle One)  UPS  Bus  Other  
 Observed Temp. °C: 8.0°C  
 Corrected Temp. °C:   
 Sample Condition: Cool  Intact   
 Yes  No   
 Checked By: *[Signature]*  
 Turnaround Time:  Standard  Rush  
 Thermometer ID: #115  
 Correction Factor: #140  
 Bacteria (only)  Sample Condition: Cool  Intact   
 Yes  No   
 Observed Temp. °C:   
 Corrected Temp. °C:

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 04, 2024

BEN BELILL  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 1 0.5 (H241622-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/01/2024	ND	2.04	102	2.00	4.16	
<b>Toluene*</b>	<b>14.7</b>	1.00	04/01/2024	ND	2.03	101	2.00	5.14	
<b>Ethylbenzene*</b>	<b>5.84</b>	1.00	04/01/2024	ND	1.96	98.2	2.00	5.34	
<b>Total Xylenes*</b>	<b>82.9</b>	3.00	04/01/2024	ND	5.95	99.1	6.00	4.96	
<b>Total BTEX</b>	<b>103</b>	6.00	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2610</b>	100	04/01/2024	ND	230	115	200	7.04	QM-07, QR-03	
<b>DRO &gt;C10-C28*</b>	<b>20400</b>	100	04/01/2024	ND	225	112	200	8.45	QM-07, QR-03	
<b>EXT DRO &gt;C28-C36</b>	<b>2860</b>	100	04/01/2024	ND						

Surrogate: 1-Chlorooctane 168 % 48.2-134

Surrogate: 1-Chlorooctadecane 386 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 1 1 (H241622-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	04/01/2024	ND	2.04	102	2.00	4.16	
<b>Toluene*</b>	<b>62.3</b>	5.00	04/01/2024	ND	2.03	101	2.00	5.14	
<b>Ethylbenzene*</b>	<b>16.8</b>	5.00	04/01/2024	ND	1.96	98.2	2.00	5.34	
<b>Total Xylenes*</b>	<b>234</b>	15.0	04/01/2024	ND	5.95	99.1	6.00	4.96	
<b>Total BTEX</b>	<b>313</b>	30.0	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6420</b>	100	04/01/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>12100</b>	100	04/01/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>1500</b>	100	04/01/2024	ND						

Surrogate: 1-Chlorooctane 192 % 48.2-134

Surrogate: 1-Chlorooctadecane 206 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 1 8 (H241622-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	2.04	102	2.00	4.16	
Toluene*	<0.050	0.050	04/01/2024	ND	2.03	101	2.00	5.14	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.96	98.2	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.95	99.1	6.00	4.96	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>35.3</b>	10.0	03/28/2024	ND	225	112	200	8.45		
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 211 % 48.2-134

Surrogate: 1-Chlorooctadecane 226 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 2 0.5 (H241622-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	04/01/2024	ND	1.88	94.1	2.00	6.87	
<b>Toluene*</b>	<b>29.3</b>	2.00	04/01/2024	ND	1.94	96.9	2.00	5.76	QM-07
<b>Ethylbenzene*</b>	<b>9.70</b>	2.00	04/01/2024	ND	1.92	95.9	2.00	6.30	QM-07
<b>Total Xylenes*</b>	<b>109</b>	6.00	04/01/2024	ND	5.69	94.9	6.00	6.13	QM-07
<b>Total BTEX</b>	<b>148</b>	12.0	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7600</b>	100	04/01/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>30000</b>	100	04/01/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>4430</b>	100	04/01/2024	ND						

Surrogate: 1-Chlorooctane 298 % 48.2-134

Surrogate: 1-Chlorooctadecane 544 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 2 1 (H241622-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>7.28</b>	5.00	04/01/2024	ND	1.88	94.1	2.00	6.87	GC-NC1
<b>Toluene*</b>	<b>59.2</b>	5.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
<b>Ethylbenzene*</b>	<b>11.5</b>	5.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
<b>Total Xylenes*</b>	<b>135</b>	15.0	04/01/2024	ND	5.69	94.9	6.00	6.13	
<b>Total BTEX</b>	<b>213</b>	30.0	04/01/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>5320</b>	10.0	03/28/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>8200</b>	10.0	03/28/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>1040</b>	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 163 % 48.2-134

Surrogate: 1-Chlorooctadecane 180 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 2 9 (H241622-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
<b>DRO &gt;C10-C28*</b>	<b>59.5</b>	10.0	03/28/2024	ND	225	112	200	8.45	
<b>EXT DRO &gt;C28-C36</b>	<b>13.3</b>	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 3 0.5 (H241622-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/01/2024	ND	1.88	94.1	2.00	6.87	
<b>Toluene*</b>	<b>17.3</b>	1.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
<b>Ethylbenzene*</b>	<b>5.04</b>	1.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
<b>Total Xylenes*</b>	<b>88.5</b>	3.00	04/01/2024	ND	5.69	94.9	6.00	6.13	
<b>Total BTEX</b>	<b>111</b>	6.00	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3610</b>	100	04/01/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>30700</b>	100	04/01/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>5000</b>	100	04/01/2024	ND						

Surrogate: 1-Chlorooctane 224 % 48.2-134

Surrogate: 1-Chlorooctadecane 616 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 3 1 (H241622-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.92</b>	1.00	04/01/2024	ND	1.88	94.1	2.00	6.87	GC-NC1
<b>Toluene*</b>	<b>31.9</b>	1.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
<b>Ethylbenzene*</b>	<b>7.27</b>	1.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
<b>Total Xylenes*</b>	<b>121</b>	3.00	04/01/2024	ND	5.69	94.9	6.00	6.13	
<b>Total BTEX</b>	<b>162</b>	6.00	04/01/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3420</b>	10.0	03/28/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>7350</b>	10.0	03/28/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>930</b>	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 161 % 48.2-134

Surrogate: 1-Chlorooctadecane 179 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 3 8.5 (H241622-09)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.066</b>	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	GC-NC1	
<b>Toluene*</b>	<b>1.38</b>	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
<b>Ethylbenzene*</b>	<b>0.393</b>	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
<b>Total Xylenes*</b>	<b>7.02</b>	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
<b>Total BTEX</b>	<b>8.87</b>	0.300	04/01/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	04/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>312</b>	10.0	03/28/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>1690</b>	10.0	03/28/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>275</b>	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 4 0.5 (H241622-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	04/01/2024	ND	1.88	94.1	2.00	6.87	
<b>Toluene*</b>	<b>55.6</b>	5.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
<b>Ethylbenzene*</b>	<b>14.6</b>	5.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
<b>Total Xylenes*</b>	<b>241</b>	15.0	04/01/2024	ND	5.69	94.9	6.00	6.13	
<b>Total BTEX</b>	<b>311</b>	30.0	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7980</b>	100	04/01/2024	ND	230	115	200	7.04		
<b>DRO &gt;C10-C28*</b>	<b>19000</b>	100	04/01/2024	ND	225	112	200	8.45		
<b>EXT DRO &gt;C28-C36</b>	<b>2420</b>	100	04/01/2024	ND						

Surrogate: 1-Chlorooctane 264 % 48.2-134

Surrogate: 1-Chlorooctadecane 332 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 4 1 (H241622-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
<b>Toluene*</b>	<b>0.054</b>	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 4 7 (H241622-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
<b>Total Xylenes*</b>	<b>0.384</b>	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
<b>Total BTEX</b>	<b>0.384</b>	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>22.2</b>	10.0	03/28/2024	ND	230	115	200	7.04	
<b>DRO &gt;C10-C28*</b>	<b>322</b>	10.0	03/28/2024	ND	225	112	200	8.45	
<b>EXT DRO &gt;C28-C36</b>	<b>40.0</b>	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 5 0.5 (H241622-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 5 1 (H241622-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04		
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45		
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 5 3 (H241622-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
<b>DRO &gt;C10-C28*</b>	<b>17.2</b>	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 6 0.5 (H241622-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
<b>DRO &gt;C10-C28*</b>	<b>41.9</b>	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 6 2 (H241622-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 7 0.5 (H241622-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.4	10.0	03/29/2024	ND	230	115	200	7.04	
DRO >C10-C28*	572	10.0	03/29/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	67.8	10.0	03/29/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 7 1 (H241622-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2024	ND	230	115	200	7.04	
<b>DRO &gt;C10-C28*</b>	<b>62.4</b>	10.0	03/29/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/29/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/28/2024	Sampling Date:	03/27/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 7 2 (H241622-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	237	118	200	5.62		
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	229	114	200	5.71		
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Ben Bell  
 Address: 601 N. Marientfeld St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 989 854 0832 Fax #:   
 Project #: 03C1558323 Project Owner: XTO  
 Project Name: PUA 23 DTB CVB  
 Project Location: 38.21345, -109.85032  
 Sample Name: Tracy Hillard / Michel San Hilana  
 P.O. #:   
 Company: XTO  
 Attn: Amy Ruth  
 Address: 3104 E. Greenest  
 City: Lordsburg  
 State: NM Zip: 88320  
 Phone #: 432.661.0571 Fax #:   
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	BTEX	TPH
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
Hell 232	PH1	0.5	5	1			X					3-27-24	1439	X	X	X
	PH1	1	1	1									1045	X		
	PH1	8	1	1									1317			
	PH2	0.5	1	1									1440			
	PH2	1	1	1									1100			
	PH2	9	1	1									1443			
	PH3	0.5	1	1									1441			
	PH3	1	1	1									1320			
	PH3	8.5	1	1									1320			
	PH4	0.5	1	1									1407			

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Relinquished By: *[Signature]*  
 Date: 5-28-24  
 Time: 1342  
 Received By: *[Signature]*  
 Date:   
 Time:   
 Received By: *[Signature]*

Delivered By: (Circle One)  
 Observed Temp. °C: 0.3  
 Corrected Temp. °C:   
 Sample Condition:  
 Intact  
 Cool  
 Yes  
 No  
 CHECKED BY: *[Signature]*

Sampler - UPS - Bus - Other:  
 Turnaround Time:   
 Standard  Rush   
 Thermometer ID #443  
 Rush #140  
 Corrected Temp. °C:   
 Bacteria (only)   
 Cool Intact   
 Yes  No   
 Sample Condition   
 Observed Temp. °C:   
 Corrected Temp. °C:   
 Verbal Result:  Yes  No  Add'l Phone #:   
 All Results are emailed. Please provide Email address:  
 Bellenings@ensolum.com B.Dell@ensolum.com

† Cardinal cannot accept verbal changes. Please email changes to celej.keene@cardinallabsnm.com

REMARKS: Cost Center: 18210AS1001  
 Incident: NAPP8408531557 / NAPP8408533992  
 Incident: NAPP8408531557 / NAPP8408533992



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Ben Bell <b>Address:</b> 601 N. Marland St. STE 400 <b>City:</b> Midland <b>Phone #:</b> 9898540832 <b>Project #:</b> 03C1558383 <b>Project Name:</b> PLM 83 DTD CVB <b>Project Location:</b> 3A, 21345, -103.85032 <b>Sampler Name:</b> AH / US		<b>State:</b> TX <b>Zip:</b> 79701 <b>Attn:</b> Amy Ruth <b>Address:</b> 304 E. Garret <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88800 <b>Phone #:</b> 4326410571 <b>Fax #:</b>		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> XTO <b>Attn:</b> Amy Ruth <b>Address:</b> 304 E. Garret <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88800 <b>Phone #:</b> 4326410571 <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>	
<b>FOR LAB USE ONLY</b>		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE / COOL OTHER:		<b>SAMPLING</b> DATE TIME	
Lab I.D. H041622 Sample I.D. PH4 Sample Depth (feet) 1 (G)RAB OR (C)OMP. G # CONTAINERS 1 SOIL X DATE 5/21/24 TIME 1408	PH4 PH4 PH5 PH5 PH5 PH6 PH6 PH7 PH7 PH7	1 7 0.5 1 3 0.5 2 0.5 1 2	1 1 1 1 1 1 1 1 1 1	X X X X X X X X X X	X X X X X X X X X X	Chloride BTEX TPH	X X X X X X X X X
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.							
<b>Relinquished By:</b> Ben Bell Date: 5/28/24 Time: 1342		<b>Received By:</b> [Signature] Date: [Signature] Time: [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: <a href="mailto:BenBell@ensolum.com">BenBell@ensolum.com</a>		<b>REMARKS:</b> Cost center: 2010251001 Incident: APP2408531559/APP2408633992 APP2408531559/APP2408633992	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 0.3 Corrected Temp. °C:		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: [Signature] Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID: #115 4/10 Correction Factor: 0.00 5/21/24	

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 09, 2024

BEN BELILL  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: PH 8 0.5 (H241732-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>88.9</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>11.3</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: PH 8 2 (H241732-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: PH 9 0.5 (H241732-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	649	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	112	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: PH 9 2 (H241732-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16		
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/08/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693		
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	217	109	200	1.08		
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 01 0.5 (H241732-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>345</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>75.7</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 02 0.5 (H241732-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>305</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>77.2</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 03 0.5 (H241732-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	991	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	237	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 04 0.5 (H241732-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>962</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>283</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 05 0.5 (H241732-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>666</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>139</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 06 0.5 (H241732-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>309</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>80.5</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 07 0.5 (H241732-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	180	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	56.4	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 08 0.5 (H241732-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	418	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	115	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 09 0.5 (H241732-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	207	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	55.4	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 10 0.5 (H241732-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>72.1</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>12.7</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 11 0.5 (H241732-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>186</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>55.7</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 12 0.5 (H241732-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>387</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>97.9</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 13 0.5 (H241732-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
<b>DRO &gt;C10-C28*</b>	<b>944</b>	10.0	04/04/2024	ND	217	109	200	1.08	
<b>EXT DRO &gt;C28-C36</b>	<b>287</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 14 0.5 (H241732-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
<b>DRO &gt;C10-C28*</b>	<b>74.1</b>	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 15 0.5 (H241732-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
<b>DRO &gt;C10-C28*</b>	<b>122</b>	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 16 0.5 (H241732-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
<b>DRO &gt;C10-C28*</b>	<b>318</b>	10.0	04/04/2024	ND	197	98.3	200	2.06	
<b>EXT DRO &gt;C28-C36</b>	<b>45.5</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 17 0.5 (H241732-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	57.9	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 18 0.5 (H241732-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	294	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	40.2	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/03/2024	Sampling Date:	03/28/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21345,-103.85032		

**Sample ID: FS 19 0.5 (H241732-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
<b>DRO &gt;C10-C28*</b>	<b>442</b>	10.0	04/04/2024	ND	197	98.3	200	2.06	
<b>EXT DRO &gt;C28-C36</b>	<b>60.5</b>	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Ben Belli  
 Address: 601 N. Marientfield St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 989-854-0852 Fax #: \_\_\_\_\_  
 Project #: 03C1558383 Project Owner: XTO  
 Project Name: PLU 83 DTD CVB  
 Project Location: 38.21345, -103.85032  
 Sampler Name: Treacy Alford / Michael Santzilk  
 P.O. #: \_\_\_\_\_ Company: XTO  
 Attn: Amy Ruth  
 Address: 314 E Greene St  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 432-661-0571  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
1841732	PH8	0.5	G	1			X					3/28/24	0852	Chloride
	PH8	2	G	1									0856	BTEX
	PH9	0.5	G	1									0908	TPH
	PH9	2	G	1									0912	
	ES01	0.5	C	1									0921	
	ES02	0.5	C	1									0923	
	ES03	0.5	C	1									0927	
	ES04	0.5	C	1									1140	
	ES05	0.5	C	1									1140	
	ES06	0.5	C	1									1100	

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Relinquished By: [Signature] Date: 4/13/24 Time: 0700  
 Received By: [Signature] Date: 4/13/24 Time: 0700

Delivered By: (Circle One) Observed Temp. °C: 57 Corrected Temp. °C: \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_

Vertical Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: Belling@ensolum.com BBelli@ensolum.com

REMARKS: COST center: 2A10 251001  
 Incident: APP04024531559 / APP04024633992  
 Turnaround Time: Standard  Rush   
 Thermometer ID #449 #4140  
 Correction Factor 0.520 0.50.4/3/24  
 Bacteria (only) Sample Condition: Cool  Intact  Yes  No   
 Corrected Temp. °C: \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Ben Beilil  
 Address: 601 N Marland Street, Suite 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 989 854 0852 Fax #:   
 Project #: ATC 05C1558323 Project Owner: XTO  
 Project Name: PUA 23 DTD CUR  
 Project Location: 32.21345, -103.85032  
 Sampler Name: Tracy Hillard / Urvet Santanilla  
 P.O. #:   
 Company: XTO  
 Attn: Amy Ruth  
 Address: 3104 E. Green St  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: 573.641-0571  
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HA1732	FS07	0.5	C	1			X				3:28:24	10:15	X	X	X
11	FS08			1								10:20	X	X	X
12	FS09			1								10:25	X	X	X
13	FS10			1								10:28	X	X	X
14	FS11			1								10:50	X	X	X
15	FS12			1								10:54	X	X	X
16	FS13			1								11:00	X	X	X
17	FS14			1								11:03	X	X	X
18	FS15			1								11:06	X	X	X
19	FS16			1								11:10	X	X	X
20															

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Relinquished By: *Ben Beilil*  
 Date: 4/3/24  
 Time: 0700  
 Received By: *[Signature]*  
 Date: 4/3/24  
 Time: 1450

Delivered By: (Circle One)  Observed Temp. °C *5.9*  
 Sampler - UPS - Bus - Other:  Corrected Temp. °C   
 Sample Condition:  Cool  Intact  
 CHECKED BY: *[Signature]*  
 Turbidity Time: *Standard*  
 Thermometer ID #443 *Rush*  
 Corrosion Factor 0.50 *4/3/24*

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Ben Bell  
 Address: 601 N Marientfeld Street, Suite 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 989 854 0852 Fax #: \_\_\_\_\_  
 Project #: 03C1558323 Project Owner: XTO  
 Project Name: PUM 03 DTD CVB  
 Project Location: 39, 01345, -103, 85002  
 Sampler Name: Tracy Hillard / Uriel Sotomayor  
 P.O. #: \_\_\_\_\_ Company: XTO  
 Attn: Amy Ruth  
 Address: 3104 E. Greene  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 432-641-0571 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	MATRIX							PRESERV.		DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
				# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
H041732	FS17	0.5	C 1				X					X	3/28/24	1113	X	X	X
	FS18	1	C 1				X					X	1115	1	1	1	
	FS19		C 1				X					X	1119	1	1	1	

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Retinquished By: [Signature] Date: 4/3/24  
 Received By: [Signature] Date: 4/3/24  
 Time: 0700  
 Observed Temp. °C: 5.7  
 Corrected Temp. °C: \_\_\_\_\_  
 Sample Condition: Cool Intact [X] Yes [ ] No [ ]  
 CHECKED BY: [Signature] (Initials) JB  
 Remarks: cost center: 2010251001  
 Incident: APP 2402531559 / APP 2402633992  
 Turnaround Time: Standard [X] Rush [ ]  
 Thermometer ID #44-#140  
 Correction Factor: 0.0 4/3/24  
 Bacteria (only) Sample Condition: Cool Intact [X] Yes [ ] No [ ]  
 Corrected Temp. °C: \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



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May 16, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 15:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 01 0.5' (H242580-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 01 B 2' (H242580-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 01 D 4' (H242580-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 02 B 2' (H242580-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 02 D 4' (H242580-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 03 0.5' (H242580-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	289	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	34.1	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 03 B 2' (H242580-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 03 D 4' (H242580-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 04 0.5' (H242580-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	34.1	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 04 B 2' (H242580-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 04 D 4' (H242580-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 05 0.5' (H242580-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
<b>DRO &gt;C10-C28*</b>	<b>148</b>	10.0	05/14/2024	ND	202	101	200	1.39	
<b>EXT DRO &gt;C28-C36</b>	<b>29.1</b>	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 05 B 2' (H242580-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 06 0.5' (H242580-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
<b>DRO &gt;C10-C28*</b>	<b>17.1</b>	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 06 B 2' (H242580-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92		
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39		
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	PLU 23 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558323	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.213078,-103.850626		

**Sample ID: BH 06 D 4' (H242580-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Tracy Hillard  
 Address: 3122 National Parks Hwy  
 City: Carlsbad  
 Phone #: 575 937 3906 State: NM Zip: 88220  
 Project #: 03C1558323 Fax #:  
 Project Name: PLU 23 DTD CVB Project Owner:  
 Project Location: 32.213078, -103.850626 City: Carlsbad  
 Sampler Name: Uziel Sutfilland State: NM Zip: 88220  
 P.O. #: Company: XTO Energy  
 Attn: Amy Ruth  
 Address: 3104 E. Greene St  
 State: NM Zip: 88220  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	BTEX	TPH
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1242580	BH01	0.5'	G	1			X								
	BH01B	2'													
	BH01D	4'													
	BH02B	2'													
	BH02D	4'													
	BH03	0.5'													
	BH03B	2'													
	BH03D	4'													
	BH04	0.5'													
	BH04B	2'													

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Relinquished By: [Signature]  
 Date: 5/10/24  
 Time: 1517  
 Received By: [Signature]  
 Date: [Blank]  
 Time: [Blank]

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  
 Observed Temp. °C: 5.8  
 Corrected Temp. °C: [Blank]  
 Sample Condition: Cool Intact  
 Checked By: [Signature]  
 Turnaround Time: Standard Rush  
 Bacteria (only) Sample Condition: Cool Intact  
 Corrected Temp. °C: [Blank]



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Tracy Hillard  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 575 937 3906 Fax #:   
 Project #: 03C1558323 Project Owner:   
 Project Name: 03C1558323  
 Project Location: 32.23078, -103.850626  
 Sample Name: Uricel San Fillard  
 P.O. #:   
 Company: XTO Energy  
 Attn: Amy Ruth  
 Address: 3104 E. Greene St  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11	BH04D	4'	G	1			X				5/9/24	1500	chloride
12	BH05	0.5'	G	1			X				5/10/24	926	TPH
13	BH05B	2'	G	1			X					932	BTEX
14	BH06	0.5'	G	1			X					1040	
15	BH06B	2'	G	1			X					1044	
16	BH06D	4'	G	1			X					1050	

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Relinquished By: *[Signature]*  
 Date: 5/10/24  
 Time: 1517

Received By: *[Signature]*  
 Date:   
 Time:   
 Received By: *[Signature]*

Delivered By: (Circle One)  
 Observed Temp. °C: 58°C  
 Corrected Temp. °C:   
 Sample Condition:  Intact  Cool  Yes  No  
 CHECKED BY: *[Signature]*

Turnaround Time: Standard  Rush   
 Verbal Result:  Yes  No Add'l Phone #:   
 All Results are emailed. Please provide Email address:   
 Remarks: Cost center: 2210251001  
 APP# 2402633992  
 APP# 2402531559  
 Thermometer ID: *[Signature]*  
 Correction Factor: -0.5°C  
 Bacteria (only)  Cool  Intact  Yes  No  
 Sample Condition:  Observed Temp. °C  Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 364651

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2402531559
Incident Name	NAPP2402531559 PLU 23 DOG TOWN DRAW CVB @ 0
Incident Type	Oil Release
Incident Status	Remediation Plan Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	PLU 23 Dog Town Draw CVB
Date Release Discovered	01/14/2024
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Freeze   Valve   Crude Oil   Released: 135 BBL   Recovered: 101 BBL   Lost: 34 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Freeze   Valve   Natural Gas Vented   Released: 261 MCF   Recovered: 0 MCF   Lost: 261 MCF.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 364651

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Melanie Collins Title: Regulatory Analyst Email: Melanie.Collins@exxonmobil.com Date: 01/25/2024
--	---



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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	160
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	42000
GRO+DRO (EPA SW-846 Method 8015M)	37600
BTEX (EPA SW-846 Method 8021B or 8260B)	313
Benzene (EPA SW-846 Method 8021B or 8260B)	7.3

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	09/13/2024
On what date will (or did) the final sampling or liner inspection occur	10/13/2024
On what date will (or was) the remediation complete(d)	10/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	28300
What is the estimated volume (in cubic yards) that will be reclaimed	2000
What is the estimated surface area (in square feet) that will be remediated	28300
What is the estimated volume (in cubic yards) that will be remediated	2000

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 364651

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/16/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 364651

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 364651

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>340363</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>05/10/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>20</b>
What was the sampling surface area in square feet	<b>4000</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>No</b>

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
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**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 364651

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364651
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. The Variance Request for 400 ft2 floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	8/5/2024